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311. (AMENDED) A receiver system that receives a burst of time domain symbols via an output of a channel, said receiver system comprising:

at least one processing element that performs a time domain substantially orthogonalizing procedure on said burst of time domain symbols to recover a burst of frequency domain symbols; and

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a channel estimation processor that receives at least v training symbols belonging to said burst of frequency domain [training] symbols, v being an extent in symbol periods of a duration of significant terms of an impulse response of said channel, applies said time domain substantially orthogonalizing procedure to said received at least v training symbols to obtain a time domain response for said channel, and that applies an inverse of said substantially orthogonalizing procedure to a zero-padded version of said time domain response to obtain a frequency response for said channel.

REMARKS

Claims 266 – 302 and 307 – 311 have been examined. Claims 266 - 267, 270 – 282, 284 – 285, 288, 297 – 301, and 307 – 311 have been rejected while claims 268 – 269, 283, 286, 287, 289–296, and 302 have been objected to but indicated to be directed towards allowable subject matter. The present amendment amends claims 266, 270 – 271, 284, and 311 and also cancels claims 267 – 269, 285 - 287, and 307 – 310. Accordingly, claims 266, 270 – 284, 288 – 302, 311 remain pending. Reconsideration and allowance of all pending claims are respectfully requested.

The office action indicates that the petition requesting the deletion of inventors, Vincent K. Jones and Michael Pollack is deficient because it lacks the required statement under 37 CFR 1.48(b)(1), and the required fee under 37 CFR 1.17(i). The required statement and authorization to charge the required fee were in fact included and copies of the documents submitted to the PTO are included with this amendment.

The examiner has objected to claims 284 – 302 due to an informality in claim 284. In response, the applicant has amended 284 to supply the missing verb “applies.” The basis for the objection is therefore overcome and applicants respectfully request its withdrawal.

Claims 266, 267, 270, 278, 280 – 282, 284, 285, 288, 297, and 299 – 301 have been rejected under 35 USC§102(e) as being anticipated by US Patent No. 5,510,799 issued to Wishart. Solely for the purpose of expediting prosecution, applicants have amended claim 266 to incorporate the limitations of claim 268, and have amended claim 284 to incorporate the limitations of claim 286. Since claims 268 and 286 have been indicated to be directed to allowable subject matter, these amendments moot the rejection over Wishart.

Claims 266, 278, 279, 284, 297, 298, 307, and 308 have been rejected under 35 USC §102(e) as being anticipated by US Patent No. 5, 479, 447 issued to Chow et al. Again this rejection is also mooted due to the amendments to claims 266 and 284 discussed above and the cancellation of claims 307 and 308. Again, these amendments and cancellations are without prejudice and are solely for the purpose of expediting prosecution in the present application.

Claims 270 – 277 have been rejected under 35 USC §112, second paragraph as being indefinite. Claims 270 – 271 have been amended to clarify that the referred to step of “receiving” after the word “wherein” refers to “receiving information.” The rejection is therefore overcome.

Claims 307 – 311 have also been rejected under 35 USC §112, second paragraph. Claims 307 – 310 have been cancelled, mooting their rejection under 35 USC §112. Claim 311 has been amended to delete the word “training” from the phrase “frequency domain training symbols” thereby correcting the antecedent basis issue noted in the rejection. The rejection of claims 307 – 311 under 35 USC §112 is therefore overcome.

CONCLUSION:

Applicants believe that all pending claims are allowable. Therefore applicants respectfully request a notice of allowance to be issued at an early date. Should the examiner believe that a further telephone conference will expedite the prosecution of this application, the undersigned can be reached at the telephone number set out below.

Respectfully submitted,


Dan H. Lang
Registration No. 38,531
V 650 903 3507
F 650 903 3501

RITTER VAN PELT AND YI, LLP
4906 El Camino Real, Suite 205
Los Altos, CA 94022